

Global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks market size is expected to reach \$ 1034 million by 2032, rising at a market growth of 15.4% CAGR during the forecast period (2026-2032).

On board hydrogen storage systems for fuel cell heavy duty trucks are high pressure gaseous hydrogen storage assemblies installed on fuel cell heavy trucks, tractors, dump trucks, mining trucks, port tractors and long haul logistics vehicles. They are physical automotive components positioned at the intersection of hydrogen energy equipment and new energy commercial vehicle parts. The product mainly consists of high pressure hydrogen cylinders, cylinder valves, pressure regulators, shut off valves, pipelines, mounting frames, temperature and pressure sensors, safety relief devices and control units. Common product forms include back mounted cylinder packs, frame mounted systems, roof mounted integrated systems and modular hydrogen supply assemblies. The main technical routes are 35MPa and 70MPa compressed hydrogen storage systems based on Type III and Type IV cylinder structures. Core manufacturing processes include liner forming, carbon fiber winding, resin curing, valve integration, sealing verification, fatigue cycle testing, burst testing and full system validation. Key specifications include working pressure, cylinder volume, hydrogen storage capacity, number of cylinders per truck, system weight, leakage rate, refueling compatibility, crash safety performance and vehicle grade redundancy design. The system's key function is to safely store compressed hydrogen on board and supply hydrogen to the fuel cell powertrain in a stable and controllable manner during vehicle operation. The product is mainly used in medium and long distance freight transportation, port logistics, mining transportation, municipal heavy duty vehicles, industrial park logistics and regional demonstration fleets. Demand is closely linked to hydrogen fuel cell truck

deployment, high pressure vessel certification, carbon fiber supply, hydrogen refueling infrastructure and commercial vehicle decarbonization policies. In 2025, global shipments were approximately 7,700 sets, the industry average selling price was approximately USD 43,500 per set, and the average gross margin was approximately 28%.

On board hydrogen storage systems for fuel cell heavy duty trucks are becoming one of the most important value added components in the hydrogen commercial vehicle supply chain. The upstream side is built around carbon fiber, resin systems, liners, valves, sensors, sealing components and pressure control parts, while the midstream segment includes cylinder manufacturing, cylinder pack assembly, hydrogen supply module integration and vehicle grade validation. The downstream market is driven by fuel cell heavy trucks, port tractors, mining trucks, long haul logistics vehicles and municipal heavy duty vehicles. The product is not merely a pressure vessel; it is a complete safety critical system that determines hydrogen storage capacity, driving range, vehicle layout, refueling compatibility and operational reliability. The competitive landscape is characterized by a combination of established global automotive suppliers, composite pressure vessel specialists and fast growing Chinese hydrogen equipment companies. International players have stronger experience in Type IV cylinders, 70MPa systems, vehicle certification and global truck platform cooperation, while Chinese companies benefit from domestic demonstration projects, local heavy truck demand, cost efficient manufacturing and policy driven deployment. Recent industry activity, including acquisitions, new product launches, local capacity expansion and joint venture production lines, indicates that the sector is moving from engineering validation toward early commercial scale. Competition is shifting from individual cylinder performance to integrated system capability, weight reduction, batch consistency, safety redundancy and total cost of ownership. The policy environment remains supportive, especially for heavy duty applications where long range, high payload and high utilization rates make fuel cell powertrains more attractive. However, the industry also faces clear substitution pressure from battery electric and battery swapping heavy trucks, particularly in short haul and medium haul routes. As a result, hydrogen storage systems are expected to gain stronger traction in ports, mines, steel plants, logistics corridors, cold regions and other high intensity operating scenarios. Future growth will depend on larger 70MPa systems, lower cost Type IV cylinders, broader hydrogen refueling infrastructure, localized supply chains and more standardized truck platforms. Overall, the market remains in a growth stage with high technical barriers, strict safety certification requirements and favorable long term prospects.

This report studies the global Hydrogen Storage Cylinder Assemblies for Fuel Cell

Heavy-duty Trucks production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks total production and demand, 2021-2032, (Set)

Global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks total production value, 2021-2032, (USD Million)

Global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Set), (based on production site)

Global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks consumption by region & country, CAGR, 2021-2032 & (Set)

U.S. VS China: Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks domestic production, consumption, key domestic manufacturers and share

Global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Set)

Global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Set)

Global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Set)

This report profiles key players in the global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hexagon Purus ASA, FORVIA SE, OPmobility SE, NPROXX B.V., Luxfer Gas Cylinders, Quantum Fuel Systems LLC, Toyoda Gosei Co., Ltd., ILJIN Hysolus Co., Ltd., Sinoma Science & Technology (Suzhou) Co., Ltd., Beijing Tianhai Industry Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Set) and average price (US\$/Set) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks Market,
By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks Market,
Segmentation by Type:

Type III Hydrogen Cylinder System

Type IV Hydrogen Cylinder System

Mixed Type System

Others

Global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks Market,
Segmentation by Pressure Rating:

35MPa System

70MPa System

Dual Pressure or Platform-adapted System

Others

Global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks Market,
Segmentation by Application:

Long-haul Heavy-duty Trucks

Port and Industrial Yard Trucks

Mining and Construction Trucks

Municipal and Special-purpose Heavy Vehicles

Others

Companies Profiled:

Hexagon Purus ASA

FORVIA SE

OPmobility SE

NPROXX B.V.

Luxfer Gas Cylinders

Quantum Fuel Systems LLC

Toyoda Gosei Co., Ltd.

ILJIN Hysolus Co., Ltd.

Sinoma Science & Technology (Suzhou) Co., Ltd.

Beijing Tianhai Industry Co., Ltd.

Jiangsu Guofu Hydrogen Energy Equipment Co., Ltd.

CIMC-Hexagon Hydrogen Energy Technology Co., Ltd.

Faber Industrie S.p.A.

Key Questions Answered:

1. How big is the global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks market?
2. What is the demand of the global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks market?
3. What is the year over year growth of the global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks market?
4. What is the production and production value of the global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks market?
5. Who are the key producers in the global Hydrogen Storage Cylinder Assemblies for Fuel Cell Heavy-duty Trucks market?
6. What are the growth factors driving the market demand?

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